STIC-Biotech/ChemLib

From:

Portner, Ginny Tuesday, September 30, 2003 3:55 PM STIC-Biotech/ChemLib

Sent: To:

Subject:

09/662,812

Importance:

High

Please INterference search seq id no. 1 and 2. thanks, Ginny

Ginny Rortner CM1, Art Unit 1645 Room 7e13 Mail box 7e12 (703) 308-7543

Searcher: Phone:_ Location:_ Date Picked Up:_ Date Completed: Searcher Prep/Review:_ Clerical:_ Online time:_

TYPE OF SEARCH: NA Sequences:_ AA Sequences: Structures: Bibliographic:_ Litigation:_ Full text:_ Patent Family:___ Other:__

VENDOR/COST (where applic.) STN: DIALOG: Questel/Orbit:_ DRLink:_ Lexis/Nexis: Sequence Sys.: WWW/Internet: Other (specify):_



Art Unit: 1641

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2000/Jul W2

(c) format only 2000 Dialog Corporation

*File 155: MEDLINE has been reloaded. Accession numbers

changed.

File 154:MEDLINE(R) 1993-2000/Jul W2

(c) format only 2000 Dialog Corporation

*File 154: MEDLINE has been reloaded. Accession numbers

changed.

File 73:EMBASE 1974-2000/Apr W4

(c) 2000 Elsevier Science B.V.

**File 73: New drug links added. See Help News73.

File 5:Biosis Previews(R) 1969-2000/May W4

(c) 2000 BIOSIS

File 144:Pascal 1973-2000/May W2

(e) 2000 INIST/CNRS

*File 144: This file is updating weekly now.

File 349:PCT Fulltext 1983-2000/UB=, UT=20000504

(c) 2000 WIPO/MicroPatent

File 156:Toxline(R) 1965-2000/Apr

(c) format only 2000 The Dialog Corporation

File 654:US Pat.Full. 1990-2000/May 23

(c) format only 2000 The Dialog Corp.

*File 654: Reassignment data current through 12/06/1999

recordings.

Due to recent processing problems, the SORT command is not

working.

File 172:EMBASE Alert 2000/Apr W5

(c) 2000 Elsevier Science B.V.

File 151:HealthSTAR 1975-2000/Jun

(e) format only 2000 The Dialog Corporation

*File 151: HealthSTAR will be reloaded. Accession numbers will change.

File 51:Food Sci.&Tech.Abs 1969-2000/Jun

(c) 2000 FSTA IFIS Publishing

File 357:Derwent Biotechnology Abs 1982-2000/May B2

(e) 2000 Derwent Publ Ltd

File 348:European Patents 1978-2000/May W01

(c) 2000 European Patent Office

*File 348: ** NEW FEATURE ** English language translations of

French

and German abstracts now searchable. See HELP NEWS 348 for

info.

File 98:General Sci Abs/Full-Text 1984-2000/Apr

(c) 2000 The HW Wilson Co.

File 342:Derwent Patents Citation Indx 1978-98/200004

(c) 2000 Derwent Info Ltd

*File 342: File updating has resumed with the addition of delayed

updates.

For information on the resumption of Alerts, see HELP NEWS 342.

File 347:JAPIO Oct 1976-1999/Nov(UPDATED 000515)

(c) 2000 JPO & JAPIO

*File 347: Display front page images using format 19. See HELP

NEWS 347

for more information

File 143:Biol. & Agric. Index 1983-2000/Apr

(c) 2000 The HW Wilson Co

File 65:Inside Conferences 1993-2000/May W3

(c) 2000 BLDSC all rts. reserv.

File 35:DISSERTATION ABSTRACTS ONLINE

1861-1999/DEC

(c) 2000 UMI

Due to recent processing problems, the SORT command is not

File 442:AMA Journals 1982-2000/Apr W2

Art Unit: 1641

File 94:JICST-EPlus 1985-2000/Jan W5 (c)2000 Amer Med Assn -FARS/DARS apply (c)2000 Japan Science and Tech Corp(JST) File 370:Science 1996-1999/Jul W3 File 148:Gale Group Trade & Industry DB 1976-2000/May 25 (c) 1999 AAAS (c)2000 The Gale Group File 162:CAB HEALTH 1983-2000/Apr Set Items Description (e) 2000 CAB INTERNATIONAL --- -----File 340:CLAIMS(R)/US Patent 1950-00/May 16 ?ds (e) 2000 IFI/CLAIMS(r) *File 340: *** Incorrectly attributed foreign priorities have been Set Items Description removed. See HELP NEWS 340 for details. 788 MEMBRAN? (5N) (PYLORI OR PYLOR OR File 545:Investext(R) 1982-2000/May 25 PYLORIS OR PYLORIDIS OR -(e) 2000 Thomson Financial Networks HELICOBACTER? OR HELICOBAC?) File 16:Gale Group PROMT(R) 1990-2000/May 25 S2 384 RD (unique items) (c) 2000 The Gale Group 222 S2/1997:2000 **S3** File 77:Conference Papers Index 1973-2000/May 162 S2 NOT S3 **S4** (c) 2000 Cambridge Sci Abs S5 50 TARGET - S4 File 158:DIOGENES(R) 1976-2000/May W2 **S6** 112 S4 NOT S5 (c) 2000 DIOGENES 50 TARGET - S6 File 203:AGRIS 1974-2000/Mar **S8** 62 S6 NOT S7 Dist by NAL, Intl Copr. All rights reserved **S9** 50 TARGET - S8 File 50:CAB Abstracts 1972-2000/May 12 S8 NOT S9 S10 (c) 2000 CAB International S11 12 TARGET - S10 File 344: Chinese Patents ABS Apr 1985-2000/Feb ?t s9/3,kwic/16 17 43 44 45 47 (c) 2000 European Patent Office >>>KWIC option is not available in file(s): 77 File 653:US Patents Fulltext 1980-1989 (c) format only 2000 The Dialog Corp. 9/3,KWIC/16 (Item 16 from file: 654) *File 653: Reassignment data current through 12/06/1999 DIALOG(R)File 654:US Pat.Full. recordings. (c) format only 2000 The Dialog Corp. All rts. reserv.

02418533

Utility

RAPID IN VITRO TEST FOR HELICOBACTER PYLORI

USING SALIVA

PATENT NO.: 5,420,014

ISSUED: May 30, 1995 (19950530)

INVENTOR(s): Cripps, Allan, East Maitland, AU (Australia)

Witt, Campbell, Bicton, AU (Australia)

Claney, Robert L., New Lambton, AU (Australia)

Stiel, Daniel, East Lindfield, AU (Australia)

ASSIGNEE(s): Auspharm International Ltd, (A Non-U.S. Company

or

Corporation), New South Wales, AU (Australia)

[Assignee Code(s): 36188]

APPL. NO.: 7-876,524

FILED: April 30, 1992 (19920430)

FULL TEXT: 569 lines

...thereof.

Hence, a medical practitioner may use a nitrocellulose or other

suitable

solid phase support membrane strip carrying immobilized H.

pylori

antigens, such as soluble sonicate. The strip is then contacted with

the

mucous secretion. The ...

9/3,KWIC/17 (Item 17 from file: 654)

DIALOG(R)File 654:US Pat.Full.

(e) format only 2000 The Dialog Corp. All rts. reserv.

02243151

Utility

ANTIGENIC COMPOSITIONS AND THEIR USE FOR THE

DETECTION OF HELICOBACTER

PYLORI

[Useful to detect gastrointestinal disorder; mixture is enriched with

at

least one of 116, 24, 19 and lukda gramfments]

PATENT NO.: 5,262,156

ISSUED: November 16, 1993 (19931116)

INVENTOR(s)(Alemohammad) Mohammad M., Mission Viejo, CA

(California), US

(United States of America)

ASSIGNEE(s): Hyeor Biomedical, Inc., (A U.S. Company or

Corporation),

Garden Grove, CA (California), US (United States of

America)

[Assignee Code(s): 32230]

APPL. NO.: 7-744,461

FILED: August 12, 1991 (19910812)

FULL TEXT: 461 lines

... well. In addition to cross-reactivity, studies have demonstrated a

strain variation among the H. pylori outer membrane antigens.

As a

result, until the present invention, a mixture of H. pylori antigens

suitable...

9/3,KWIC/43 (Item 43 from file: 349)

Art Unit: 1641

DIALOG(R)File 349:PCT Fulltext

(c) 2000 WIPO/MicroPatent. All rts. reserv.

Publication Language: English

Fulltext Word Count: 11573

00443250

HELICOBACTER PYLORI ANTIGENS AND VACCINE

COMPOSITIONS

ANTIGENES D'HELICOBACTER PYLORI ET

COMPOSITIONS DE VACCINS

Patent Applicant/Assignee:

ASTRA AKTIEBOLAG

BOLIN Ingrid

SVENNERHOLM Ann-Mari

Inventor(s):

BOLIN Ingrid

SVENNERHOLM Ann-Mari

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9638475 A1 19961205

Application: WO 96SE727 19960603 (PCT/WO

SE9600727)

Priority Application: SE 952007 19950601; SE 961085 19960321

Designated States: AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA;

CH; CN; CZ; DE;

 $DK;\, EE;\, ES;\, FI;\, GB;\, GE;\, HU;\, IL;\, IS;\, JP;\, KP;\, KR;\, KZ;\, LK;\, LR;$

LS; LT; LU;

LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU;

SD; SE; SG; TJ; TM;

TR; TT; UA; UG; US; UZ; VN; KE; LS; MW; SD; SZ; UG; AM;

AZ; BY; KG; KZ;

MD; RU; TJ; TM; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU;

MC: NL; PT;

SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; SN; TD; TG

Fulltext Availability:

Detailed Description

Detailed Discription

... disclosed by Evans et al. (1993) J. Bacteriol.

175, 674-683.

Monoclonal antibodies (MAbs) against membrane preparations of

H.

pylori have been disclosed by B61 in et al. (1995) J. Clin. Microbiol.

33, 381 384.

One...

9/3,KWIC/44 (Item 44 from file: 349)

DIALOG(R)File 349:PCT Fulltext

(c) 2000 WIPO/MicroPatent. All rts. reserv.

00417757

HELICOBACTER PYLORI DIAGNOSTIC METHODS AND

KITS

METHODES DE DIAGNOSTIC DE L'HELICOBACTER

PYLORI ET NECESSAIRES

CORRESPONDANTS

Patent Applicant/Assignee:

GENELABS DIAGNOSTICS PTE LTD

Inventor(s):

CHAN Lily

MOECKLI Randolph

CHIN Daria Foong Yun

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9612965 A1 19960502

Application:

WO 95IB1028 19951019 (PCT/WO

IB9501028)

Priority Application: US 94326638 19941020

Designated States: AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ;

DE; DK; ES; FI;

GB; HU; JP; KP; KR; KZ; LK; LU; LV; MG; NO; NZ; PL; PT;

RO; RU; SD; SE;

SK; UA; UZ; VN; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT;

LU; PT; SE;

BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

Publication Language: English

Fulltext Word Count: 4773

English Abstract

...assay involves an immunoblot for biological fluid samples and

includes

a kit in which Helicobacter pylori antigen is immobilized on a

membrane support. Also provided is a method for diagnosing

disease

associated with Helicobacter pylori infection.

9/3,KWIC/45 (Item 45 from file: 349)

DIALOG(R)File 349:PCT Fulltext

(c) 2000 WIPO/MicroPatent, All rts, reserv.

00402777

HELICOBACTER PYLORI NICKEL BINDING PROTEIN

PROTEINE D'HELICOBARTER PYLORI A LIAISON DE

NICKEL

Patent Applicant/Assignee:

NEW ENGLAND MEDICAL CENTER HOSPITALS INC

TRUSTEES OF TUFTS COLLEGE

Inventor(s):

PLAUT Andrew G

GILBERT-ROTHSTEIN Joanne V

WRIGHT Andrew

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9533767 A1 19951214

Application:

WO 95US5772 19950509 (PCT/WO

US9505772)

Priority Application: US 94255457 19940608

Designated States: CA; JP; AT; BE; CH; DE; DK; ES; FR; GB; GR;

IE; IT; LU;

MC; NL; PT; SE

Publication Language: English

Fulltext Word Count: 5867

Fulltext Availability:

Claims

Claim

... infection of H. pylori and from uninfected control patients.

Purified

nickel binding protein from H. pylori was immobilized on a

membrane

for Western Blot analysis (Sambrook et al., supra). Patient serum

was

diluted to 1:400...

9/3,KWIC/47 (Item 47 from file: 349)

DIALOG(R)File 349:PCT Fulltext

(c) 2000 WIPO/MicroPatent. All rts. reserv.

00366137

IMMUNOGENIC COMPOSITIONS AGAINST

HELICOBACTER INFECTION, POLYPEPTIDES FOR

USE IN THE COMPOSITIONS AND NUCLEIC ACID

POLYPEPTIDES

SEQUENCES ENCODING SAID

COMPOSITIONS IMMUNOGENES DESTINEES A

PROTEGER CONTRE LES INFECTIONS A

HELICOBACTER, POLYPEPTIDES UTILISES DANS

LESDITES COMPOSITIONS ET

SEQUENCES D'ACIDES NUCLEIQUES CODANT LESDITS

POLYPEPTIDES

Patent Applicant/Assignee:

INSTITUT PASTEUR

INSTITUT NATIONAL DE LA SANTE ET DE LA

RECHERCHE MEDICALE

LABIGNE Agnes

SUERBAUM Sebastien

FERRERO Richard

THIBERGE Jean-Michel

Inventor(s):

LABIGNE Agnes

SUERBAUM Sebastien

FERRERO Richard

THIBERGE Jean-Michel

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9426901 AT 19941124

Application:

WO 94EP1625 19940519 (PCT/WO

EP9401625)

Priority Application: EP 93401309 19930519; WO 93EP3259

Designated States: AU; CA; JP; KR; US; AT; BE; CH; DE; DK; ES;

FR; GB; GR;

IE; IT; LU; MC; NL; PT; SE

Publication Language: English

Fulltext Word Count: 27778

Fulltext Availability:

Detailed Description

Detailed Discription

... following extracts:

1) standard protein markers; 2) H. felis UreA-MBP 3) MBP; 4) H.

UreA-MBP. The membranes were reacted with polyclonal rabbit

antisera

pylori

(diluted 1:

5000) raised against MBP-fused H. pylori...

?t s9/9/22 34

9/9/22 (Item 22 from file: 155)

Art Unit: 1641

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08650575 96186491

Surface localization of Helicobacter pylori urease and a heat

shock

protein homolog requires bacterial autolysis.

Phadnis SH; Parlow MH; Levy M; Ilver D: Caulkins CM; Connors

JB; Dunn BE

Department of Pathology, Medical College of Wisconsin,

Milwaukee, USA.

Infection and immunity (UNITED STATES) Mar 1996, 64 (3)

p905-12,

ISSN 0019-9567 Journal Code: GO7

Contract/Grant No.: CA-67527, CA, NCI

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9609

Subfile: INDEX MEDICUS

Helicobacter pylori is a gram-negative bacterium which causes

chronic

gastritis and is associated with peptic ulcer disease, gastric

carcinoma,

and gastric lymphoma. The bacterium is characterized by potent

urease

activity, thought to be located on the outer membrane, which is

essential

for survival at low pH. The purpose of the present study was to

investigate

mechanisms whereby urease and HspB, a GroEL homolog,

become surface

associated in vitro. Urease, HspB, and catalase were located

almost

exclusively within the cytoplasm in fresh log-phase cultures

assessed by

eryo- immunoelectron microscopy. In contrast, significant

amounts of

surface-associated antigen were observed in older or

subcultured

preparations concomitantly with the appearance of significant

amounts of

extracellular antigen, amorphous debris, and membrane fragments.

By use of

a variety of biochemical methods, a significant fraction of urease and

HspB

was associated with the outer membrane in subcultured preparations

of H.

pylori . Taken together, these results strongly suggest that H.

pylori

cells undergo spontaneous autolysis during culture and that urease

and HspB

become surface associated only concomitant with bacterial

autolysis. By

comparing enzyme sensitivity to flurofamide (a potent, poorly

diflusible

urease inhibitor) in whole cells with that in deliberately lysed cells,

we

show that both extracellular and intracellular urease molecules are

active

enzymatically. Autolysis of H. pylori is an important

phenomenon to

Art Unit: 1641

recognize since it likely exerts significant effects on the behavior of

H.

pylori. Furthermore, the surface properties of H. pylori must be

unique in

promoting adsorption of cytoplasmic proteins.

Tags: Support, Non-U.S. Gov't, Support, U.S. Gov't, P.H.S.

Descriptors: *Bacterial Proteins--Analysis--AN;

*Bacteriolysis;

*Heat-Shock Proteins--Analysis--AN; *Helicobacter

pylori--Chemistry--CH;

*Urease--Analysis--AN; Antigens, Bacterial--Analysis--AN;

Helicobacter

pylori--Enzymology--EN; Urease--Antagonists and Inhibitors--Al

CAS Registry No.: 0 (Antigens, Bacterial); 0 (Bacterial

Proteins); 0

(Heat-Shock Proteins)

Enzyme No.: EC 3.5.1.5 (Urease)

9/9/34 (Item 34 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

05496338 89124531

Serum IgG antibody to the outer membrane proteins of

Campylobacter

pylori in children with gastroduodenal disease.

Czinn S; Carr H; Sheffler L; Aronoff S

Department of Pediatrics, Case Western Reserve University,

Cleveland.

Journal of infectious diseases (UNITED STATES) Mar 1989.

159 (3)

p586-9, ISSN 0022-1899 Journal Code: IH3

Contract/Grant No.: AI25818, AI, NIAID

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 8905

Subfile: AIM; INDEX MEDICUS

Tags: Human; Support, U.S. Gov't, P.H.S.

Descriptors: *Antibodies, Bacterial-Immunology--IM; *Bacterial

Outer

Membrane Proteins--Immunology--IM:

*Campylobacter--Immunology--IM;

*Campylobacter Infections--Immunology--IM; *Gastrointestinal

Diseases

--Immunology--IM; Adolescence; Antigens,

Bacterial--Immunology--IM;

Blotting, Western; Child; Child, Preschool; Gastrointestinal

Diseases

--Microbiology--MI; IgG--Immunology--IM; Molecular Weight

CAS Registry No.: 0 (Antibodies, Bacterial); 0 (Antigens,

Bacterial);

0 (Bacterial Outer Membrane Proteins)

?t s11/9/4 12

11/9/4 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2000 Elsevier Science B.V. All rts. reserv.

04116222 EMBASE No: 1989285268

Campylobacter pylori releases membrane-associated and soluble

Art Unit: 1641

antigens during infection

Brennan D.P.; Keeling P.W.N.

Trinity College Dublin Medical School, St. James's Hospital.

Dublin 8

Ireland

EDITOR(S): Megraud F.; Lamouliatte H.

BOOK PUBLISHER: Elsevier Science Publishers B.V.

Gastroduodenal pathology and Campylobacter pylori: proceedings

of the

first meeting of the European Campylobacter Pylori Study Group.

ICS847

1989, (207-211)

ISBN: 0444811591

CONFERENCE TITLE: The first meeting of the European

Campylobacter Study

Group

CONFÈRENCE LOCATION: Bordeaux, FRANCE

CONFERENCE DATE: 07 OCT 1988 to 08 OCT 1988

DOCUMENT TYPE: Proceeding

LANGUAGE: ENGLISH

DRUG DESCRIPTORS:

*membrane antigen

MEDICAL DESCRIPTORS:

*helicobacter pylori; *stomach mucosa

human cell; nonhuman; human

SECTION HEADINGS:

004 Microbiology: Bacteriology, Mycology, Parasitology and

Virology

DIALOG(R)File 155:MEDLINE(R)

(e) format only 2000 Dialog Corporation. All rts. reserv.

08540347 95197292

Isolation and characterization of a family of porin proteins from

Helicobacter pylori.

Exner MM; Doig P; Trust TJ; Hancock RE

Department of Microbiology and Immunology, University of

British

Columbia, Vancouver, Canada.

Infection and immunity (UNITED STATES) Apr 1995, 63 (4)

p1567-72.

ISSN 0019-9567 Journal Code: GO7

Contract/Grant No.: R01AI29927-01A2, AI, NIAID

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9506

Subfile: INDEX MEDICUS

Two-dimensional gel electrophoresis was used to identify

heat-modifiable

outer membrane proteins, which were candidates for porins,

from

Helicobacter pylori membrane preparations. Four such proteins

with

apparent molecular masses of 48, 49, 50, and 67 kDa were isolated.

The four

proteins copurified together after selective detergent

solubilizations

followed by anion-exchange chromatography, and each protein was

ultimately

11/9/12 (Item 12 from file: 155)

purified to homogeneity by gel purification. These proteins were

then

tested for pore-forming ability with a planar lipid bilayer model

membrane

system. All four proteins appeared to be present as monomers, and

they

formed pores with low single-channel conductances in 1.0 M KCl

of 0.36,

0.36, 0.30, and 0.25 nS, respectively, for the 48-, 49-, 50-, and

67-kDa

proteins which we propose to designate HopA, HopB, HopC,

and HopD.

N-terminal amino acid sequence analyses showed a high degree of

homology

among all four proteins, and it appears that these proteins constitute

a.

family of related porins in H. pylori.

Tags: Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

Descriptors: *Helicobacter pylori--Chemistry--CH;

*Porins--Isolation and

Purification--IP; Amino Acid Sequence; Electric

Conductivity;

Electrophoresis, Gel, Two-Dimensional; Heat; Helicobacter

pylori

--Physiology--PH; Ion Channels--Chemistry--CH; Ion

Channels--Isolation and

Purification--IP; Molecular Sequence Data; Molecular Weight;

Multigene

Family: Porins--Chemistry--CH; Sequence Alignment; Sequence

Homology, Amino

Acid

CAS Registry No.: 0 (Ion Channels); 0 (Porins)

Gene Symbol: hopB; hopC; hopD; hopA

?logoff hold

Art Unit: 1641

Identification of surface-exposed outer membrane antigens of Helicobacter pylori.

Doig P: Trust TJ

Department of Biochemistry and Microbiology, University of Victoria,

British Columbia, Canada.

Infection and immunity (UNITED STATES) Oct 1994. 62 (10) p4526-33,

ISSN 0019-9567 Journal Code: GO7

Contract/Grant No.: 1RO1AI29927-O1A2, AI, NIAID

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9501

Subfile: INDEX MEDICUS

antibodies

of their

Despite the potential significance of surface-localized antigens in the

colonization by and disease processes of Helicobacter pylori, few such

components have been unequivocally identified and/or

characterized. To

further investigate the surface of this bacterium, monoclonal

(MAbs) to a sarcosine-insoluble outer membrane fraction prepared

pylori NCTC 11637 were raised. MAbs were selected on the basis

surface reactivity to whole cells by enzyme-linked immunosorbent assay.

immunofluorescence, and immunoelectron microscopy. By use of this selection

protocol. 14 surface-reactive MAbs were chosen. These MAbs were used to

identify six protein antigens (molecular masses, 80, 60, 51, 50, 48, and 31

kDa), all of which were localized within or associated with the outer

membrane. Two of the MAbs recognized the core region of lipopolysaccharide

(LPS). Only these two anti-LPS MAbs also recognized the flagellar sheath,

indicating a structural difference between the sheath and outer membrane.

Three of the protein antigens (80, 60, and 51 kDa) were strain specific,

while the other three antigens were present in other strains of H. pylori.

Both the 51- and 48-kDa antigens were heat modifiable and likely are

porins. A conserved 31-kDa protein may represent another species of porin.

A method involving sucrose density ultracentrifugation and Triton

extraction that allows the preparation of H. pylori outer membranes

with minimal inner membrane contamination is described. Sodium dodecyl

sulfate-polyacrylamide gel electrophoresis analysis showed that the protein

content of the H. pylori outer membrane is similar structurally to those of other species of Helicobacter but markedly different from those of

Art Unit: 1641

11 Omit. 1011

taxonomically related Campylobacter spp. and Escherichia coli. H. pylori

also appeared to lack peptidoglycan-associated proteins.

Tags: Animal: Support. Non-U.S. Gov't: Support, U.S. Gov't. P.H.S.

Descriptors: *Antigens, Bacterial--Analysis--AN; *Bacterial

Outer

Membrane Proteins--Analysis--AN; *Helicobacter

pylori--Immunology--IM;

Antibodies, Monoclonal--Immunology--IM; Antigens,

Surface--Analysis--AN;

Mice; Mice, Inbred BALB C; Molecular Weight

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Antigens, Bacterial)

; 0 (Antigens, Surface); 0 (Bacterial Outer Membrane Proteins)

5/9/5 (Item 5 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08937617 97044643

Bactericidal effect of plaunotol, a cytoprotective antiuleer agent, against Helicobacter pylori.

Koga F, Kawada H; Utsui Y; Domon H; Ishii C; Yasuda H

Biological Research Laboratories, Sankyo Co., Ltd, Tokyo, Japan.

Journal of antimicrobial chemotherapy (ENGLAND) Sep 1996,

38 (3)

p387-97, ISSN 0305-7453 Journal Code: HD7

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9705

Subfile: INDEX MEDICUS

In order to investigate the bactericidal effect of plaunotol, an oily antiuleer agent, against Helicobacter pylori, comparative studies were

conducted using its derivatives, M-4, M-5, and M-6, whose hydrophobicity

decreased in the order of plaunotol > M-6 > M-5 > M-4 by

determination. Plaunotol rapidly reduced the viability of H. pylori in

vitro, and cell death was associated with cell lysis. In addition, plaunotol showed eightfold stronger bactericidal activity against H. pylori

than M-6 and M-5, while the compound with the lowest hydrophobicity, M-4,

showed no bactericidal activity. The bactericidal activities of plaunotol

and its derivatives were related to the hydrophobicity of these compounds.

To investigate a possible interaction between these compounds and the cell

membrane of H. pylori , their effects on liposomal membranes prepared

from phosphatidylethanolamine and cardiolipin, which are known to be

present in the membrane of H. pylori , were determined by detection of

glucose release from the liposomes. Plaunotol showed eight-fold higher

activity than M-6 and M-5, while M-4 showed no activity. The

effects of

plaunotol and its derivatives on liposomal membrane were therefore

related

to their bactericidal activities. In addition, it was confirmed that the

bactericidal effect of plaunotol against H. pylori was neutralized by

the

liposomal membrane, and that plaunotol led to an increase in

permeability

of the membrane, as evidenced by measurement of the leakage of

260 nm

absorbing-material from H. pylori. These results suggest that

the

bactericidal effect of plaunotol against H. pylori is due to the

interaction between this compound and the bacterial cell membrane.

Tags: Comparative Study

Descriptors: *Fatty Alcohols--Pharmacology--PD; *Helicobacter

pylori

--Drug Effects--DE; *Helicobacter pylori--Metabolism--ME;

Anti-Infective

Agents--Pharmacology--PD; Anti-Ulcer Agents--Pharmacology--PD;

Dicarboxylic

Acids--Chemistry--CH; Dicarboxylic Acids--Pharmacology--PD;

Fatty Acids,

Unsaturated--Chemistry--CH; Fatty Acids,

Unsaturated--Pharmacology--PD;

Fatty Alcohols--Chemistry--CH; Glucose--Metabolism--ME;

Liposomes

--Metabolism--ME; Liposomes--Pharmacology--PD; Microbial

Sensitivity Tests

: Spectrophotometry: Structure-Activity Relationship

CAS Registry No.: 0 (Anti-Infective Agents); 0 (Anti-Ulcer

Agents); 0

(Dicarboxylic Acids); 0 (Fatty Acids, Unsaturated); 0 (Fatty

Alcohols)

; 0 (Liposomes); 50-99-7 (Glucose); 64218-02-6

(plaunotol);

65811-39-4 (plaunotol M-6); 95310-55-7 (plaunotol M-4);

95310-63-7

(plaunotol M-5)

5/9/6 (Item 6 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08406501 96009781

Iron-repressible outer membrane proteins of Helicobacter

pylori

involved in heme uptake.

Worst DJ; Otto BR; de Graaff J

Department of Medical Microbiology, Faculty of Medicine,

Vrije

Universiteit, Amsterdam, The Netherlands.

Infection and immunity (UNITED STATES) Oct 1995, 63 (10)

p4161-5,

ISSN 0019-9567 Journal Code: GO7

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9601

Subfile: INDEX MEDICUS

Helicobacter pylori is known to be a causative agent of gastritis

and

peptic ulcer disease in humans. The acquisition of iron from the

human host

may contribute greatly to the virulence of this organism. To study

this, H.

pylori was cultured under iron-restrictive conditions to induce

synthesis

of possible iron-regulated outer membrane proteins. This was

achieved by

the addition of 20% (vol/vol) heat-inactivated newborn calf scrum,

which

contains iron-binding proteins like transferrin and albumin, and no

free

iron. The newborn calf serum was able to bind free ionic iron in

brucella

broth culture medium. Electrophoretic analysis of outer

membrane

preparations from H. pylori cultured under conditions of iron

restriction showed several proteins to be present at elevated levels.

These

appeared to be iron-repressible outer membrane proteins

(IROMPs). In

addition, IROMPs with molecular sizes of 77, 50, and 48 kDa were

isolated

by use of hemin-agarose affinity chromatography. These three

heme-binding

IROMPs might be involved in the uptake of home from the host

and might

therefore be important virulence factors of H. pylori.

Tags: Animal

Descriptors: Bacterial Outer Membrane

Proteins--Physiology--PH; *

Helicobacter pylori --Metabolism--ME;

*Heme--Metabolism--ME: *Iron

--Metabolism--ME; Bacterial Outer Membrane

Proteins--Analysis--AN:

Culture Media; Helicobacter pylori--Growth and

Development--GD;

Helicobacter pylori--Pathogenicity--PY; Horses

CAS Registry No.: 0 (iron-regulated protein, bacterial); 0

(Bacterial

Outer Membrane Proteins); 0 (Culture Media); 14875-96-8

(Heme):

7439-89-6 (Iron)

5/9/10 (Item 10 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08889065 97047972

Sequencing, expression, and genetic characterization of the

Helicobacter

pylori flsH gene encoding a protein homologous to members of a

novel

putative ATPase family.

Ge Z: Taylor DE

Department of Medical Microbiology and Immunology, University

of Alberta,

Edmonton, Canada.

Art Unit: 1641

Journal of bacteriology (UNITED STATES) Nov 1996. 178 (21) p6151-7.

ISSN 0021-9193 Journal Code: HH3

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9703

Subtile: INDEX MEDICUS

identified

In this study, we isolated and sequenced a Helicobacter pylori gene.

designated ftsH, coding for a 632-amino-acid protein which displayed

striking similarity throughout its full length to FtsH proteins

in Escherichia coli, Lactococcus lactis, and Bacillus subtilis. H.

FtsH also possessed approximately 200-amino-acid region containing a

putative ATPase module which is conserved among members of the AAA protein

family (AAA, ATPase associated with diverse cellular activities).

The H.

pylori ftsH product was overexpressed in E. coli and reacted immunologically with an anti-E. coli FtsH serum (T. Tomoyasu, K. Yamanaka.

K. Murata, T. Suzaki, P. Bouloe, A. Kato, H. Niki, S. Hiraga, and T. Ogura,

J. Bacteriol. 175:1352-1357, 1993). FtsH was also shown to be present in

the membrane fraction of H. pylori , suggesting that it is membrane

bound. Disruption of the flsH gene led to the loss of viability of H.

pylori, demonstrating that this gene is essential for cell growth.

Overproduction of both H. pylori FtsH and E. coli FtsH together

tremendously reduced the growth rate of the E. coli host cells, whereas the

growth of the E. coli cells carrying the wild-type E. coli ftsH operon on

the chromosome was not significantly affected by overproduction of H.

pylori FtsH itself. This result suggests that the abnormal growth of cells

results from interaction between H. pylori FtsH and E. coli FtsH.

Tags: Support, Non-U.S. Gov't

Descriptors: Adenosinetriphosphatase--Genetics--GE; *DNA, Bacterial

--Analysis--AN; * Helicobacter pylori --Enzymology--EN; *
Membrane

Proteins--Genetics--GE; Amino Acid Sequence; Base Sequence; Escherichia

coli--Growth and Development--GD; Escherichia coli--Metabolism--ME; Gene

Expression; Helicobacter pylori--Growth and Development--GD;

pylori--Genetics--GE; Molecular Sequence Data: Sequence

Homology, Amino

Acid

Helicobacter.

Molecular Sequence Databank No.: GENBANK/U59452

CAS Registry No.: 0 (DNA, Bacterial); 0 (FtsH protein, Helicobacter):

Art Unit: 1641

0 (Membrane Proteins)

Enzyme No.: EC 3.6.1.3 (Adenosinetriphosphatase)

5/9/26 (Item 26 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(e) format only 2000 Dialog Corporation. All rts. reserv.

08393091 95309999

Expression of adhesion molecules on human granulocytes after

stimulation

with Helicobacter pylori membrane proteins: comparison with

membrane

proteins from other bacteria.

Enders G; Brooks W; von Jan N; Lehn N; Bayerdorffer E; Hatz R

Institute for Surgical Research, Klinikum Grosshadern,

Ludwig-Maximilians

University, TU Munich, Germany.

Infection and immunity (UNITED STATES) Jul 1995, 63 (7)

p2473-7,

ISSN 0019-9567 Journal Code: GO7

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9509

Subfile: INDEX MEDICUS

Type B gastritis in its active form is characterized by a dense

infiltration of the lamina propria with granulocytes. Since the

bacterium

Helicobacter pylori does not invade the epithelial barrier, a

signaling

pathway chemoattractive for granulocytes must exist across this

mucosal

boarder. One possible mechanism tested was whether

granulocytes are

directly activated by water-soluble membrane proteins (WSP)

from H.

pylori . These findings were compared with the effects of WSP

from other

bacteria (Helicobacter felis, Campylobacter jejuni, Escherichia coli,

and

Staphylococcus aureus). A unique activation pattern by H. pylori

WSP was

found. Like all other WSP tested, they induced an upregulation of

CD11b but

had no influence on CD11c and, most strikingly, CD62L

expression. In

contrast, E. coli WSP, e.g., not only induce a strong CD11b and

CDHe

expression but also lead to a loss in surface CD62L. The lack of

CD62L

shedding conserves rolling of granulocytes along the endothelium,

creating

a favorable precondition for granulocytes to stick more readily

to

activated endothelium after H. pylori stimulation via

CD11b-CD54

receptor-counterreceptor interaction. This may explain why H.

pylori

infection is a very strong stimulus for granulocyte infiltration.

The

active fraction for the induction of CD11b on granulocytes is a heat-

and

protease-sensitive protein with a molecular mass between 30 and

100 kDa.

One activation step involved may be the binding of WSP to CD15

determinants

on granulocytes with subsequent induction of CD11b.

Tags: Human; In Vitro; Support, Non-U.S. Gov't

Descriptors: *Antigen p150,95--Metabolism--ME; *Bacterial Outer

Membrane

Proteins--Pharmacology--PD; *Cell Adhesion

Molecules--Metabolism--ME;

*Granulocytes--Cytology--CY; *Helicobacter

pylori--Pathogenicity--PY;

*Macrophage-1 Antigen--Metabolism--ME; Antigens,

Bacterial--Immunology--IM;

Antigens, CD15--Metabolism--ME; Bacterial

Proteins--Immunology--IM;

Bacterial Proteins--Pharmacology--PD; Cell Adhesion--Drug

Effects--DE

CAS Registry No.: 0 (Antigen p150,95); 0 (Antigens,

Bacterial); 0

(Antigens, CD15); 0 (Bacterial Outer Membrane Proteins); 0

(Bacterial

Proteins); 0 (Cell Adhesion Molecules); 0 (Macrophage-1

Antigen);

126880-86-2 (L-Selectin)

5/9/32 (Item 32 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(e) format only 2000 Dialog Corporation. All rts. reserv.

09051729 97023927

Human serum antibody response against iron-repressible outer

membrane

proteins of Helicobacter pylori.

Worst DJ; Sparrius M; Kuipers EJ; Kusters JG; de Graaff J

Department of Medical Microbiology, Vrije Universiteit,

Amsterdom, The

Netherlands. dj.worst.MM@med.vu.nl

FEMS microbiology letters (NETHERLANDS) Oct 15 1996,

144 (1) p29-32,

ISSN 0378-1097 Journal Code: FML

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9703

Subfile: INDEX MEDICUS

In Helicobacter pylori, in vitro iron limitation induces the

expression

of several iron repressible outer membrane proteins (IROMPs),

which are not

expressed under normal growth conditions. To substantiate their

proposed

role in virulence of H. pylori, we determined whether these IROMPs

are also

expressed in vivo. Therefore, we tested whether sera of patients

with H.

pylori infection contained antibodies against IROMPs. All sera from

20 H.

pylori positive patients showed a clear immune response against a

77 kDa

Art Unit: 1641

heme-binding IROMP in an immunoblot assay. Antibody responses

against the

other IROMPs were also found, but with lower frequencies. Serum

samples

from 18 patients negative for H. pylori infection did not show

any

immunoreactivity with IROMPs. These results indicate that the

IROMPs of H.

pylori are immunogenic and are expressed in vivo.

Tags: Human

Descriptors: Antibodies, Bacterial--Blood--BL; *Bacterial Outer

Membrane

Proteins--Immunology--IM; * Helicobacter

Infections--Immunology--IM;

Dyspepsia--Immunology--IM; Dyspepsia--Microbiology--MI;

Helicobacter

pylori--Immunology--IM; Helicobacter pylori--Pathogenicity--PY

CAS Registry No.: 0 (iron-regulated protein, bacterial); 0

(Antibodies, Bacterial); 0 (Bacterial Outer Membrane Proteins)

5/9/34 (Item 34 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(e) format only 2000 Dialog Corporation. All rts. reserv.

08270334 95229929

Identification of Helicobacter pylori by immunological dot blot

method

based on reaction of a species-specific monoclonal antibody with

a

surface-exposed protein.

Bolin I: Lonroth H: Svennerholm AM

Department of Medical Microbiology and Immunology, Goteborg

University,

Sweden.

Journal of clinical microbiology (UNITED STATES) Feb

1995, 33 (2)

p381-4, ISSN 0095-1137 Journal Code: HSH

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9507

Subfile: INDEX MEDICUS

Monoclonal antibodies (MAbs) against membrane

preparations of

Helicobacter pylori were produced. One MAb was found to be

specific for

H. pylori, because it did not react with a number of other

bacterial

species, including Helicobacter felis and Campylobacter jejuni.

This MAb

reacted with a 30-kDa protein found in outer membrane

preparations of H.

pylori . The protein was also detected on the cell surface on

intact

bacteria when analyzed by immunoelectron microscopy. To

facilitate the

identification of H. pylori isolates after culturing of biopsies, an

immunodot blot assay based on the reaction of this MAb was

developed. This

assay was found to be highly specific for H. pylori. Sixty-six

clinical

Art Unit: 1641

isolates typed as H. pylori by conventional biochemical tests were 5/3.KWIC/11 (Item 11 from file: 654) found to DIALOG(R)File 654:US Pat.Full. be positive, whereas no other bacterial species tested gave a (e) format only 2000 The Dialog Corp. All rts. reserv. positive result. By this method, reliable and rapid identification of H. 02121323 Reissue pylori PROCESS FOR PREPARATION OF HIGH MOLECULAR could be accomplished. WEIGHT CELL-ASSOCIATED PROTEIN OF Tags: Human; Support, Non-U.S. Gov't Descriptors: *Antibodies, Monoclonal; *Bacterial CAMPYLOBACTER PYLORI AND USE FOR Proteins--Immunology--IM SEROLOGICAL DETECTION OF CAMPYLOBACTER ; *Helicobacter pylori--Immunology--IM; *Helicobacter PYLORI INFECTION pylori--Isolation [Purified antigens] and Purification--IP; *Immunoblotting--Methods--MT; Antibodies, Viral; PATENT NO.: RE34,101 ISSUED: October 13, 1992 (19921013) Antibody Specificity; Antigens, Bacterial; Antigens, Surface; Evaluation INVENTOR(s): Evans, Dolores G., Houston, TX (Texas), US Studies; Helicobacter Infections--Diagnosis--DI; Helicobacter (United States of Infections America) --Microbiology--MI; Immunoblotting--Statistical and Numerical Evans, Doyle J., Houston, TX (Texas), US (United States of Data--SN; America) Graham, David Y., Houston, TX (Texas), US (United States Membrane Proteins--Immunology--IM; Microscopy, Immunoelectron; Sensitivity of and Specificity; Species Specificity America) CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Antibodies, ASSIGNEE(s): Baylor College of Medicine, (A U.S. Company or Viral); Corporation), 0 (Antigens, Bacterial); 0 (Antigens, Surface); 0 (Bacterial Houston, TX (Texas). US (United States of America) Proteins) [Assignee Code(s): 6345] ; 0 (Membrane Proteins) APPL. NO.: 7-671,566 ?ts5/3,kwic/11 FILED: March 19, 1991 (19910319) KWIC option is not available in file(s): 77 Reissue (first reissue) of patent no.: 4,882,271, issued: November

21,

1989 (19891121), serial no.: 7-166,138, filed: March 10, 1988

(19880310)

being capable of being solubilized from the outer surface of the

membrane

with n...

?t s7/9/29 31 34

(italic start) The work herein was supported by grants from the

United

7/9/29 (Item 29 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

States Government. (italic end)

(e) format only 2000 Dialog Corporation. All rts. reserv.

FULL TEXT: 572 lines

...associated with cross-reactivity, investigators have extensively

studied

the acid extractable surface proteins and outer membrane proteins

pylori . Newall, D. G., Journal of General Microbiology

133:163-170

(1987); and Perez-Perez, G...

...soluble in PBS and Tris-chloride buffers;

being derived from the outer surface of the membrane of

Campylobacter

pylori; and

being solubilized from the outer surface of the membrane

2...

n-octyl-glucoside.

08724304 96236218

The respiratory chain of Helicobacter pylori: identification of

cytochromes and the effects of oxygen on cytochrome and

menaquinone levels.

Marcelli SW; Chang HT; Chapman T; Chalk PA; Miles RJ; Poole

Division of Life Sciences, King's College London, UK.

FEMS microbiology letters (NETHERLANDS) Apr 15 1996,

138 (1) p59-64,

ISSN 0378-1097 Journal Code: FML

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9610

Subfile: INDEX MEDICUS

The quinone and cytochrome components of the respiratory chain

of the

microaerophilic bacterium Helicobacter pylori have been

investigated. The

major isoprenoid quinone was menaquinone-6, with traces of

menaquinone-4;

no methyl-substituted or unusual menaquinone species were found.

Cell yield

...soluble in PBS and tris-chloride buffers:

being derived from the outer surface of the membrane of

Campylobacter

pylori; and

was highest after growth at 10% (v/v) oxygen and menaquinone

levels (per

dry cell mass) were maximal at 5-10% (v/v) oxygen. Helicobacter

pylori

cells and membranes contained b- and c-type cytochromes, but

not

terminal oxidases of the a- or d-types, as judged by reduced minus

oxidised

difference spectra. Spectra consistent with the presence of a

CO-binding

terminal oxidase of the cytochrome b- or o-type were obtained. The

soluble

fraction from disrupted cells also contained cytochrome c. There

were no

significant qualitative differences in the cytochrome complements of

grown at oxygen concentrations in the range 2-15% (v/v) but

putative

oxidases were highest in cells grown at 5-10% (v/v) oxygen.

Tags: Support, Non-U.S. Gov't

Descriptors: *Cytochromes--Metabolism--ME; *Helicobacter

pylori

--Metabolism--ME; *Vitamin K--Metabolism--ME; Helicobacter

pylori--Drug

Effects--DE; Hemeproteins--Isolation and Purification--IP;

Hemeproteins

--Metabolism--ME; Oxygen--Pharmacology--PD; Oxygen

Consumption; Quinones

--Isolation and Purification--IP; Quinones--Metabolism--ME

CAS Registry No.: 0 (Cytochronies); 0 (Hemeproteins); 0

(Quinones);

12001-79-5 (Vitamin K); 7782-44-7 (Oxygen)

7/9/31 (Item 31 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08407292 96032377

Isolation and characterization of a conserved porin protein

Helicobacter pylori.

Doig P; Exner MM; Hancock RE; Trust TJ

Canadian Bacterial Diseases Network, University of Victoria,

British

Columbia, Canada.

Journal of bacteriology (UNITED STATES) Oct 1995, 177 (19)

p5447-52.

ISSN 0021-9193 Journal Code: HH3

Contract/Grant No.: RO1A129927-01A2

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9601

Subfile: INDEX MEDICUS

Helicobacter pylori is a causative agent of gastritis in humans and

correlated with gastric ulcer formation. Infections with this

bacterium

have proven difficult to treat with antimicrobial agents. To

understand how this bacterium transports compounds such as

antimicrobial

Art Unit: 1641

agents across its outer membrane, identification of porin proteins is

important. We have recently identified a family of H. pylori porins (HopA

to HopD) (M. M. Exner, P. Doig, T. J. Trust, and R. E. W. Hancock, Infect.

Immun. 63:1567-1572, 1995). Here, we report on an unrelated porin species

(HopE) from this bacterium. This protein had a apparent molecular mass of

31 kDa and was seen to form 50- and 90-kDa aggregates that were designated

putative dimeric and trimeric forms, respectively. The protein was

purified

to homogeneity and, with a model planar lipid membrane system,

was shown to

act as a nonselective pore with a single channel conductance in 1.0

M KCI

of 1.5 nS, similarly to other bacterial nonspecific porins. An

internal

peptide sequence of HopE shared homology with the P2 porin of

Haemophilus

influenzae. HopE was also shown to be antigenic in vivo as assessed

by sera

taken from H. pylori-infected individuals and was immunologically

conserved

with both patient sera and specific monoclonal antibodies. From these

data.

it appears that HopE is a major nonselective porin of H. pylori.

The

implications of these findings are discussed.

Tags: Human: Support, Non-U.S. Gov't, Support, U.S. Gov't,

P.H.S.

Descriptors: *Helicobacter pylori--Chemistry--CH;

*Porins--Chemistry--CH

: Amino Acid Sequence: Antibodies, Bacterial; Antibodies,

Monoclonal;

Cross-Linking Reagents; Electric Conductivity; Helicobacter

pylori

--Immunology--IM; Lipid Bilayers; Membrane Potentials;

Molecular Sequence

Data; Molecular Weight; Peptide Fragments--Chemistry--CH;

Porins

--Immunology--IM: Porins--Isolation and Purification--IP:

Sequence

Analysis; Sequence Homology, Amino Acid; Succinimides

CAS Registry No.: 0 (Antibodies, Bacterial); 0

(Antibodies,

Monoclonal); 0 (Cross-Linking Reagents); 0 (Lipid Bilayers);

0

(Peptide Fragments); 0 (Porins); 0 (Succinimides);

57757-57-0

(dithiobis(succinimidylpropionate))

7/9/34 (Item 34 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2000 Dialog Corporation. All rts. reserv.

08269152 95227356

Identification of a 29 kDa flagellar sheath protein in

Helicobacter

pylori using a murine monoclonal antibody.

Luke CJ; Penn CW

School of Biological Sciences, University of Birmingham, UK.

Microbiology (ENGLAND) Mar 1995, 141 (Pt 3) p597-604,

ISSN 1350-0872

Journal Code: BXW

Languages: ENGLISH

Document type: JOURNAL ARTICLE

JOURNAL ANNOUNCEMENT: 9507

Subfile: INDEX MEDICUS

The membrane -like flagellar sheath of Helicobacter pylori is of

unknown function and little is known of its composition. A

murine

monoclonal antibody to H. pylori, designated GF6, which reacts

bν

immunoblot with a polypeptide with an apparent molecular mass of

29 kDa was

shown by immunogold-electron microscopy to label specifically the

flagellar

sheath structure. The antigen was detected by immunoblot using

the

monoclonal antibody in all 11 strains, of diverse geographic origin,

so far

tested. The antibody also reacted weakly with polypeptides with

apparent

molecular masses of 65 kDa in Vibrio cholerae and Vibrio

parahaemolyticus.

The antigen was shown by one- and two-dimensional electrophoretic

analysis

and immunoblotting to be distinct from the abundant urease subunit

UreA, of

similar molecular mass. Identification of this flagellar sheath

polypeptide

will facilitate investigation of the structure and function of the

flagellar sheath of this important gastric pathogen.

Tags: Animal; Support, Non-U.S. Gov't

Descriptors: *Bacterial Proteins--Chemistry--CH;

*Flagella--Chemistry--CH

; *Helicobacter pylori--Chemistry--CH; Antibodies, Monoclonal;

Antigens,

Bacterial--Chemistry--CH; Bacterial Proteins--Immunology--IM;

Flagella

--Immunology--IM; Flagella--Ultrastructure--UL; Helicobacter

pylori

--Immunology--IM; Helicobacter pylori--Ultrastructure--UL;

Mice;

Microscopy, Immunoelectron; Molecular Weight;

Urease--Immunology--IM

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Antigens,

Bacterial)

; 0 (Bacterial Proteins)

Enzyme No.: EC 3.5.1.5 (Urease)

?t s9/9/6

9/9/6 (Item 6 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2000 BIOSIS. All rts. reserv.

06432478 BIOSIS NO.: 000037004489

OUTER MEMBRANE PROTEIN CHARACTERIZATION OF

CAMPYLOBACTER- PYLORI STRAINS

CAUSING PEPTIC ULCERS

Art Unit: 1641

AUTHOR: CZINN SJ; TIDWELL JE

AUTHOR ADDRESS: CASE WESTERN RESERVE UNIV., SCH.

MED., RAINBOW BABIES AND

CHILD. HOSP., DEP. PEDIATR., CLEVELAND, OHIO.

JOURNAL: JOINT MEETING OF THE AMERICAN

PEDIATRIC SOCIETY AND THE SOCIETY

FOR PEDIATRIC RESEARCH, WASHINGTON, D.C., USA,

MAY 1-4, 1989. PEDIATR RES

25 (4 PART 2). 1989. 110A.

CODEN: PEREB

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

DESCRIPTORS: ABSTRACT CHILDREN BIOTYPING

GASTRITIS

CONCEPT CODES:

10508 Biophysics-Membrane Phenomena

14006 Digestive System-Pathology

25000 Pediatrics

31000 Physiology and Biochemistry of Bacteria

36002 Medical and Clinical Microbiology-Bacteriology

00520 General Biology-Symposia, Transactions and Proceedings

of

Conferences, Congresses, Review Annuals

10064 Biochemical Studies-Proteins, Peptides and Amino Acids

12508 Pathology, General and Miscellaneous-Inflammation and

Inflammatory Disease

BIOSYSTEMATIC CODES:

04610 Spirillaceae (1979-)

86215 Hominidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Microorganisms

Bacteria

Animals

Chordates

Vertebrates

Mammals

Primates

Humans